

Fig. 1

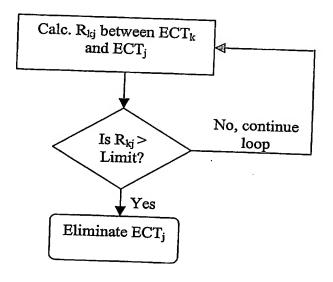


Fig. 2

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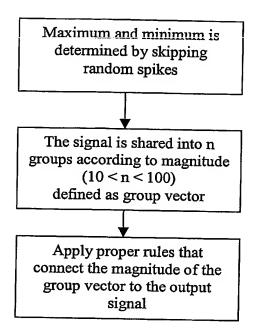


Fig. 3

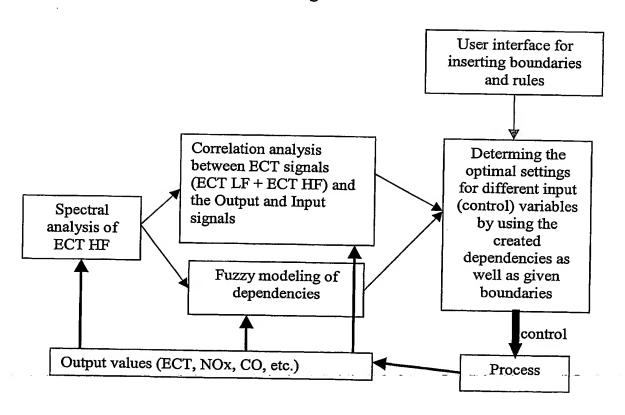


Fig. 4

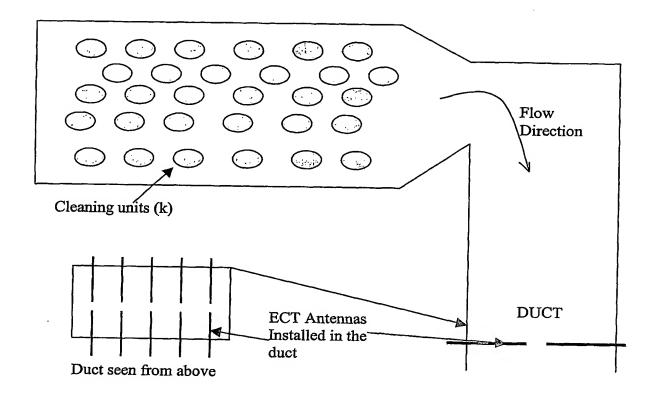
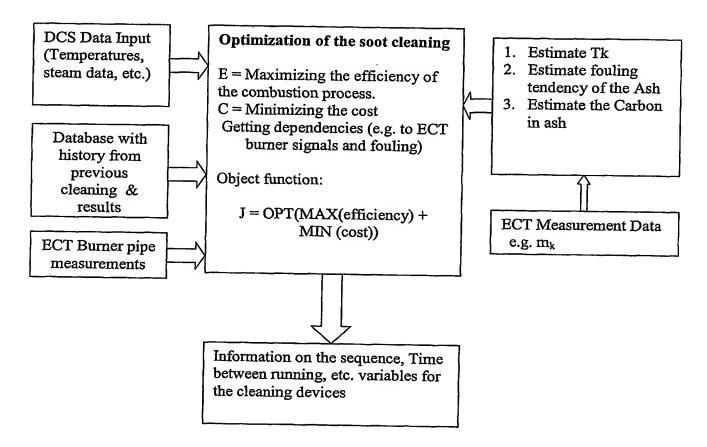


Fig. 5



where:

 $T_k$  = time elapsed between the last run of cleaning unit k  $m_k$  = particle mass flow when cleaner k is running

Fig. 6

Exhaust gas steam is led by a heat exchange surface of the heat exchange system

A certain part of the heat exchange surface of the heat exchange system is cleaned with a cleaning equipment having an operation parameter status

Particles are released from the heat exchange surface

The released particles are led into the exhaust gas stream of the heat exchange system

Amount and/or type of the released particles in the exhaust gas stream is/are measured and particle measurement data of these particles is created on the basis of these measurements

Information of the fouling is created in an electronic memory by linking together and storing in the electronic memory coordinates of the part of the heat exchange surface of the heat exchange system being cleaned and the measurement data created during the cleaning of said part.

The information of the fouling is processed as a function of the heat exchange surface coordinates to find

- an optimal time of cleaning for and/or
- optimal operation parameters for the cleaning equipment for

a particular part of the heat exchange surface of the heat exchange system.